

# Work Order ID 69366

Tuesday, May 10, 2011 10:58:15 AM



Page 1

Item ID: D412-702-343

Accept



Setup Start



Revision ID:

Stop



Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 5/10/2011 Start Qty: 1.00

Cust Item ID:

Required Date: 5/11/2011 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

DSI9511

A

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP D412-702-343 CHG001

*S. dos/10*

*H. dos BG 11-5-10*

105

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

*11/5/10SD*

110

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

*S. dos/10*

*(X)*

**Work Order ID 69366**

Tuesday, May 10, 2011 10:58:15 AM

Page 2

Item ID: D412-702-343

Accept

Setup Start

Revision ID:

Stop

Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 5/10/2011 Start Qty: 1.00

Cust Item ID:

Required Date: 5/11/2011 Req'd Qty: 1.00

Customer:



Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120  Packaging	Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-702-343 Location: <u>3B</u> PPP Rev: <u>A</u>								
130  QC	QC21- Final Inspection - Work Order Release	0.00							
Quality Control	Memo	0.00							

11/5/10

11/5/10

MC

11-05-10

# Picklist Print

Tuesday, May 10, 2011 10:58:12 AM

Page 1

Work Order ID: 69366

Parent Item: D412-702-343

Parent Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point





Start Date: 5/10/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A new issue DD 10.04.30 verified:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D412-702-301  Harness Assembly		Manufactured	No			105	Each	2.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST269			2						
				68757			2						
D412-702-303  Harness Assembly		Manufactured	No			105	Each	2.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST269			2						
				68758			2						
D412-702-305  Harness Assembly		Manufactured	No			105	Each	1.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST244A			1						
				68759			1						
D412-702-307  Harness Assembly		Manufactured	No			105	Each	1.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST269			1						
				68760			1						

# Picklist Print

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Page 2

Work Order ID: 69366

Parent Item: D412-702-343

Parent Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 5/10/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

D412-702-309

Manufactured

No

105

Each

1.0000



Harness Assembly

Location

Loc Qty

Loc Code

ST269

1

68761

1

D412-702-059

Manufactured

No

105

Each

8.0000



Grommet

Location

Loc Qty

Loc Code

FG122

5

68788

5

ST086

3

68316

3

D3761-1-041

Manufactured

No

105

Each

2.0000



HOOK & LOOP STRIP

Location

Loc Qty

Loc Code

ST244A

2

65474

2

D3542-1

Manufactured

No

105

Each

2.0000



Bracket

Location

Loc Qty

Loc Code

ST245

2

67639

2

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Page 2

# Picklist Print

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Page 3

Work Order ID: 69366

Parent Item: D412-702-343

Parent Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 5/10/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

D3571-1

Manufactured No

105

Each

15.0000

3

3



Guide

Location

Loc Qty

Loc Code

ST245

15

65267

3

68315

12

D3571-3

Manufactured No

105

Each

12.0000

2

2



Guide

Location

Loc Qty

Loc Code

ST245

12

63966

5

68773

7

D3578-041

Manufactured No

105

Each

37.0000

6

6



Doubler

Location

Loc Qty

Loc Code

ST245A

37

68204

37

D3610-041

Manufactured No

105

Each

7.0000

2

2



Bracket

Location

Loc Qty

Loc Code

ST245A

7

66881

7

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Page 3

# Picklist Print

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Page 4

Work Order ID: 69366

Parent Item: D412-702-343

Parent Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 5/10/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

D3618-1 Manufactured No 105 Each 46.0000 2  
CAP

Location Loc Qty Loc Code

ST245A 46  
55669 46

AN4-10A Purchased No 105 Each 210.0000 4  
Bolt

Location Loc Qty Loc Code

ST356 210  
116419 35  
117313 50  
117619 125

AN4-44A Purchased No 105 Each 54.0000 2  
Bolt

Location Loc Qty Loc Code

ST360 54  
104806 54

MS24693-S274 Purchased No 105 Each 153.0000 2  
Screw

Location Loc Qty Loc Code

ST288 153  
114718 3  
117441 150

# Picklist Print

Tuesday, May 10, 2011 10:58:12 AM

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Parent Item: D412-702-343

Parent Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 5/10/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

MS24694-S56

Purchased No

105

Each

62.0000

3



SCREW

Location

Loc Qty

Loc Code

ST289A

62

104407

62

MS24694-S58

Purchased No

105

Each

119.0000

2



Screw

Location

Loc Qty

Loc Code

ST289A

119

104407

19

116540

100

MS24694-S60

Purchased No

105

Each

99.0000

1



Screw

Location

Loc Qty

Loc Code

ST289A

99

104407

99

AN960JD416

NAS1149D0463J

Purchased No

105

Each

0.0000

6



Washer

AN960JD416L

NAS1149D0416J

Purchased No

105

Each

3.0000

4



Washer

Location

Loc Qty

Loc Code

FP-B

3

110153

3

# Picklist Print

Page 6

Tuesday, May 10, 2011 10:58:13 AM

Work Order ID: 69366

Parent Item: D412-702-343

Parent Item Name: 5-Man Fwd Facing Shoulder Harness, 3 point

Start Date: 5/10/2011

Required Date: 5/11/2011

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

105

Each

5,032.000

6



Nut



11/5/10

## Location

## Loc Qty

## Loc Code

ST300

5032

116823

1232

117441

3000

117601

800

6

CR3212-4-4

Purchased

No

105

Each

4.0000

12

12



Cherry Rivet



11/5/10

11/5/10

## Location

## Loc Qty

## Loc Code

ST311

4

116242

4

Y

Tuesday, May 10, 2011 10:58:13 AM

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Page 6



# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3

REF TCCA STC SH04-7  
REF FAA STC SR01997NY  
REF EASA STC EASA.I.M.R.S.00710

This service instruction adds several kits equipped with improved inertia reels:

## REFERENCE ONLY

The Dart **D412-702-341** 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-041B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-343** 5-Man Forward Facing Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-345** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-347** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-349** 1-Man Shoulder Harness Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The harness for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-351** 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/052B kits, as detailed in Table 1 of this service instruction.

The Dart **D214-702-337** 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.






The Dart **D205-702-353** 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHARD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
ISSUE NO.: 3

A	NEW ISSUE	CP	10.03.18
REV.	DESCRIPTION	BY	DATE
DESIGN		<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511	SHEET 1 OF 6
APPROVED		TITLE	SCALE
DE APPR.		NEW SHOULDER HARNESS KITS	NTS
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# REFERENCE ONLY

## INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation Instructions IIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

Part Number	Description	Install similar to:
D412-702-341	Shoulder Harness Kit	D412-702-041B (IIN-D412-702, DSI 9408)
D412-702-343	Shoulder Harness Kit	D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408)
D412-702-345	Shoulder Harness Kit	D412-702-045B (IIN-D412-702, DSI 9469)
D412-702-347	Shoulder Harness Kit	D412-702-047B (IIN-D412-702, DSI 9408)
D412-702-349	Shoulder Harness Kit	D412-702-049B (IIN-D412-702, DSI 9408)
D412-702-351	Shoulder Harness Kit	D412-702-051B (LH) (DSI 9397, DSI 9408) D412-702-052B (RH) (DSI 9397, DSI 9408)
D214-702-337	Shoulder Harness Kit	D214-702-037B (DSI 9454)
D205-702-353	Shoulder Harness Kit	D205-702-053B (DSI 9460)
D412-702-301	Harness Assembly	D412-702-101B (IIN-D412-702)
D412-702-303	Harness Assembly	D412-702-103B (IIN-D412-702)
D412-702-305	Harness Assembly	D412-702-105B (IIN-D412-702)
D412-702-307	Harness Assembly	D412-702-107B (IIN-D412-702)
D412-702-309	Harness Assembly	D412-702-109B (IIN-D412-702)
D412-702-311	Harness Assembly	D412-702-111B (IIN-D412-702)
D412-702-313	Harness Assembly	D412-702-113B (IIN-D412-702)
D412-702-315	Harness Assembly	D412-702-115B (IIN-D412-702)
D412-702-317	Harness Assembly	D412-702-117B (IIN-D412-702)
D412-702-319	Harness Assembly	D412-702-119B (DSI 9454)
D412-702-321	Harness Assembly	D412-702-121B (DSI 9454, DSI 9469)
D412-702-323	Harness Assembly	D412-702-123B (DSI 9454, DSI 9469)

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DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
ISSUE NO.: 3

DESIGN	92	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA
DRAWN	92	
CHECKED	1	DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9511 SHEET 2 OF 6
APPROVED	10	TITLE SCALE
DE APPR.	10	NEW SHOULDER HARNESS KITS NTS
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REFERENCE

**PARTS LIST**


**TABLE 2**

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
X						D412-702-341	Dart 13-Man 3-Point Shoulder Harness Kit
	X					D412-702-343	Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit
		X				D412-702-345	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
			X			D412-702-347	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
				X		D412-702-349	Dart 1-Man 3-Point Forward Shoulder Harness Kit
					X	D412-702-351	Dart 1-Man 3-Point Shoulder Harness Kit
1	1		1	1		D412-702-059	GROMMET KIT
9	5		4	1	1	D3761-1-041	HOOK AND LOOP STRIP (DSI 9408)
2	1		1			D412-702-301	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-7	ADAPTER
1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
4*	4*		4*			MS24693S272	SCREW
4*	4*		4*			AN960JD10LL	WASHER
4*	4*		4*			MS21042L3	NUT
2	1		1			D412-702-303	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-8	ADAPTER
1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
4*	4*		4*			MS24693S272	SCREW
4*	4*		4*			AN960JD10LL	WASHER
4*	4*		4*			MS21042L3	NUT
1	1			1		D412-702-305	HARNESS ASSEMBLY (NEW)
1*	1*			1*		D3573-1	ADAPTER
1*	1*			1*		D4088-041	SHOULDER HARNESS (NEW)
4*	4*			4*		MS24693S273	SCREW
4*	4*			4*		AN960JD10LL	WASHER
4*	4*			4*		MS21042L3	NUT
1	1				1	D412-702-307	HARNESS ASSEMBLY (NEW)
1*	1*				1*	D3573-3	ADAPTER
1*	1*				1*	D4088-041	SHOULDER HARNESS (NEW)
4*	4*				4*	MS24693S272	SCREW
4*	4*				4*	AN960JD10LL	WASHER
4*	4*				4*	MS21042L3	NUT
1	1					D412-702-309	HARNESS ASSEMBLY (NEW)
1*	1*					D3573-3	ADAPTER
1*	1*					D4088-041	SHOULDER HARNESS (NEW)
4*	4*					MS24693S272	SCREW
4*	4*					AN960JD10LL	WASHER
4*	4*					MS21042L3	NUT

\* denotes that part is included in assembly above

continued next page...

CANADA  
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CHECKED	1	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511	SHEET 3 OF 6
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DE APPR.	11	NEW SHOULDER HARNESS KITS	NTS
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REFERENCE ONLY

...continued from previous page

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
1		1				D412-702-311	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-1	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	SCREW
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1		1				D412-702-313	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-2	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	SCREW
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1			1			D412-702-315	HARNESS ASSEMBLY (NEW)
1*			1*			D3573-5	ADAPTER
1*			1*			D4088-041	SHOULDER HARNESS (NEW)
4*			4*			MS24693S272	SCREW
4*			4*			AN960JD10LL	WASHER
4*			4*			MS21042L3	NUT
1			1			D412-702-317	HARNESS ASSEMBLY (NEW)
1*			1*			D3573-5	ADAPTER
1*			1*			D4088-041	SHOULDER HARNESS (NEW)
4*			4*			MS24693S272	SCREW
4*			4*			AN960JD10LL	WASHER
4*			4*			MS21042L3	NUT
1		1				D412-702-321	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-3	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	BOLT
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1		1				D412-702-323	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-4	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	BOLT
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT

\* denotes that part is included in assembly above

continued next page...

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DRAWN	99	
CHECKED	J	DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9511 SHEET 4 OF 6
APPROVED	140	TITLE SCALE
DE APPR.	H	NEW SHOULDER HARNESS KITS NTS
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**REFERENCE ONLY**



...continued from previous page

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
2	2					D3542-1	BRACKET
7	3		4	1		D3571-1	GUIDE
2	2					D3571-3	GUIDE
2		2				D3572-041	GUIDE ASSEMBLY
12	6		6	2		D3578-041	DOUBLER
2	2					D3610-041	BRACKET
2	2					D3618-1	CAP
4	4					AN4-10A	BOLT
2		2				AN4-16A	BOLT
4		4				AN4-25A	BOLT
4		4				AN4-27A	BOLT (DSI 9469)
2	2					AN4-44A	BOLT
2	2					MS24693S274	SCREW
3	3			1		MS24694S56	SCREW
10	2		8			MS24694S58	SCREW
1	1			1		MS24694S60	SCREW
26	6	20				AN960JD416	WASHER
4	4					AN960JD416L	WASHER
12	6	6				MS21042L4	NUT
24	12		12	4		CR3212-4-4	RIVET

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY:   
D. SHEPHERD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
ISSUE NO.: 3

DESIGN	92	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	92		
CHECKED	J	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511	SHEET 5 OF 6
APPROVED		TITLE	SCALE
DE APPR.		NEW SHOULDER HARNESS KITS	NTS
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REFERENCE 8

TABLE 3



QTY -337	QTY -353	Part Number	Description
X		D214-702-337	Dart 5-Man 3 Point Aft Facing Shoulder Harness Kit, for 214 Aircraft
	X	D205-702-353	Dart 4-Man 3 Point Aft Facing Shoulder Harness Kit, for UH-1 Aircraft
1	2	D412-702-311	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2
1	2	D412-702-313	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2
1		D412-702-321	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2
1		D412-702-323	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2
1		D412-702-319	HARNESS ASSEMBLY (NEW)
1*		D3925-041	BRACKET
1*		D4088-043	SHOULDER HARNESS ASSEMBLY (NEW)
4*		MS24694S50	BOLT
4*		AN960JD10L	WASHER
4*		MS21042L3	NUT
	1	D3572-043	GUIDE ASSY
	1	D3572-044	GUIDE ASSY
1		D3920-041	SEATBELT GUIDE ASSEMBLY
2		D3920-5	SEATBELT GUIDE
1	6	AN4-16A	BOLT
1		AN4-21A	BOLT
7		AN4-25A	BOLT
18	12	AN960JD416	WASHER
9	6	MS21042L4	NUT

\* denotes that part is included in assembly above

CANADA  
DEPARTMENT OF TRANSPORT  
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D. SHEPHERD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
ISSUE NO.: 3

DESIGN	97	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA
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